NC/QC/PYZ/2017-18/A-BC5

Date: 26-08-2017

1.TEST REPORT ON BITUMINOUS MIXES :
(BITUMEN EXTRACTION TEST & GRADATION TEST)

Sub: To determine the percentage of bitumen and gradation for BC mix sample.
{Project*: Improvements and asphalting to cross roads at Agrahara layout instead of Kogilu layout in ward no 05.}

Ref.: Material testing/PMC/17-18,

Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: M/s Executive Engineer – 4,
KRIDL, Bangalore.

TEST RESULTS

A. Type of Construction : **Bituminous Concrete**

1. The bitumen content obtained after subjecting the sample for Bitumen Extraction test = **5.45 %**

2. **Gradation Test**

TABLE 1.1

Sieve Size, mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Gradation requirement as per Table 500-17 of MORTH Specfications-2013 BC (Grading - 2)
19.0	**100**	100
13.2	**97.30**	90-100
9.5	**85.40**	70-88
4.75	**69.10**	53-71
2.36	**54.70**	42-58
1.18	**43.00**	34-48
0.600	**30.20**	26-38
0.300	**25.30**	18-28
0.150	**17.70**	12-20
0.075	**8.20**	4-10

*As Furnished by Client.

The Results relate only to the items tested.

KIRAN. R

For Newzen Consultants Bangalore

Proprietor

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NC/QC/PYZ/2017-18/A-BC6 Date: 26-08-2017

1.TEST REPORT ON BITUMINOUS MIXES :

(BITUMEN EXTRACTION TEST & GRADATION TEST)

Sub: To determine the percentage of bitumen and gradation for BC mix sample.

{Project*: Improvements and asphalting to cross roads at Agrahara layout instead of Kogilu layout in ward no 05.}

Ref.: Material testing/PMC/17-18,

Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: M/s Executive Engineer – 4,
KRIDL, Bangalore.

TEST RESULTS

A. Type of Construction : **Bituminous Concrete**

1. The bitumen content obtained after subjecting the sample for Bitumen Extraction test = **5.41 %**

2. **Gradation Test**

TABLE 1.1

Sieve Size, mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Gradation requirement as per Table 500-17 of MORTH Specfications-2013 BC (Grading - 2)
19.0	**100**	100
13.2	**96.75**	90-100
9.5	**83.25**	70-88
4.75	**64.15**	53-71
2.36	**51.85**	42-58
1.18	**46.05**	34-48
0.600	**32.45**	26-38
0.300	**24.55**	18-28
0.150	**16.95**	12-20
0.075	**5.15**	4-10

*As Furnished by Client.

The Results relate only to the items tested.

KIRAN. R

For Newzen Consultants Bangalore

Proprietor

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NC/QC/PYZ/2017-18/A-B2

Date: 24-08-2017

1. TEST REPORT ON BITUMEN SAMPLE:

Sub: Testing of Bitumen sample VG-30 Grade.
{Project*: Improvements and asphalting to cross roads at Agrahara layout instead of Kogilu layout in ward no 05.}
Ref.: Material testing/PMC/17-18,
Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s Executive Engineer – 4,
KRIDL, Bangalore.
Technical Reference: Ministry of Road Transport and Highways, V Revision, 2013 and IS 73: 1992.

TABLE 1.1 ;

SL No	Details	Test Results	Requirements as per I.S 73 –1992 Specifications
1.	Penetration at 25^0 C	**53.0**	Min. 45
2.	Ductility Value at 25^0 C	**99.0 cm**	40
3.	Flash point	**231^0 C**	Minimum 220^0 C
4.	Softening point	**57.0^0 C**	Min. 47

*As furnished by Client.
The results relate only to the samples tested.

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NC/QC/PYZ/2017-18/A-C2 Date: 24-08-2017

1. TEST REPORT ON COARSE AGGREGATE:

Sub: Testing of Coarse Aggregate used in Bituminous Concrete.

{Project*: Improvements and asphalting to cross roads at Agrahara layout instead of Kogilu layout in ward no 05.}

Ref.: Material testing/PMC/17-18,

Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: M/s Executive Engineer – 4,
KRIDL, Bangalore.

TABLE 1.1 ;

SL No	Test conducted	Test Results	Tests Conforms to IS 2386(Part I to IV)– 1963 (Reaffirmed on 2002) & Requirements as per IS:383-1970 & M.o.R.T.H Specification, V Revision -2013.
1.	Aggregate Impact Value	**23.25 %**	Not more than 24.00 %
2.	Combined Flakiness and Elongation index, %	**25.19 %**	Not more than 35.0 %
3.	Water absorption, %	**0.35 %**	Not more than 2.0 %
4.	Specific gravity	**2.47**	-------
5.	Soundness	**5.89 %**	Max. 12 % in Sodium Sulphate

*As furnished by Client.

The results relate only to the samples tested.

KIRAN. R

For Newzen Consultants Bangalore

Proprietor

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NC/QC/PYZ/2017-18/A-BC7 Date: 27-08-2017

1.TEST REPORT ON BITUMINOUS MIXES :
(BITUMEN EXTRACTION TEST & GRADATION TEST)

Sub: To determine the percentage of bitumen and gradation for BC mix sample.
{Project*: Improvements and asphalting to cross roads at Agrahara layout instead of Kogilu layout in ward no 05.}
Ref.: Material testing/PMC/17-18,
Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s Executive Engineer – 4,
KRIDL, Bangalore.

TEST RESULTS

A. Type of Construction : **Bituminous Concrete**

1. The bitumen content obtained after subjecting the sample for Bitumen Extraction test = **5.44 %**

2. **Gradation Test**

TABLE 1.1

Sieve Size, mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Gradation requirement as per Table 500-17 of MORTH Specfications-2013 BC (Grading - 2)
19.0	**100**	100
13.2	**95.45**	90-100
9.5	**86.15**	70-88
4.75	**62.45**	53-71
2.36	**47.05**	42-58
1.18	**36.30**	34-48
0.600	**27.15**	26-38
0.300	**23.65**	18-28
0.150	**18.05**	12-20
0.075	**4.95**	4-10

*As Furnished by Client.
The Results relate only to the items tested.

KIRAN. R

For Newzen Consultants Bangalore

Proprietor

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Newzen Consultants Bangalore

NC/QC/PYZ/2017-18/A-BC8 Date: 27-08-2017

1.TEST REPORT ON BITUMINOUS MIXES :

(BITUMEN EXTRACTION TEST & GRADATION TEST)

Sub: To determine the percentage of bitumen and gradation for BC mix sample.

{Project*: Improvements and asphalting to cross roads at Agrahara layout instead of Kogilu layout in ward no 05.}

Ref.: Material testing/PMC/17-18,

Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: M/s Executive Engineer – 4,
KRIDL, Bangalore.

TEST RESULTS

A. Type of Construction : **Bituminous Concrete**

1. The bitumen content obtained after subjecting the sample for Bitumen Extraction test = **5.45 %**

2. **Gradation Test**

TABLE 1.1

Sieve Size, mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Gradation requirement as per Table 500-17 of MORTH Specfications-2013 BC (Grading - 2)
19.0	**100**	100
13.2	**96.45**	90-100
9.5	**85.15**	70-88
4.75	**65.55**	53-71
2.36	**52.40**	42-58
1.18	**40.60**	34-48
0.600	**29.05**	26-38
0.300	**22.75**	18-28
0.150	**13.20**	12-20
0.075	**6.05**	4-10

*As Furnished by Client.

The Results relate only to the items tested.

KIRAN. R

For Newzen Consultants Bangalore

Proprietor

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NC/QC/PYZ/2017-18/A-BC9 Date: 28-08-2017

1.TEST REPORT ON BITUMINOUS MIXES :
(BITUMEN EXTRACTION TEST & GRADATION TEST)

Sub: To determine the percentage of bitumen and gradation for BC mix sample.
{Project*: Improvements and asphalting to cross roads at Agrahara layout instead of Kogilu layout in ward no 05.}
Ref.: Material testing/PMC/17-18,
Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s Executive Engineer – 4,
KRIDL, Bangalore.

TEST RESULTS

A. Type of Construction : **Bituminous Concrete**
1. The bitumen content obtained after subjecting the sample for Bitumen Extraction test = **5.40 %**

2. **Gradation Test**
TABLE 1.1

Sieve Size, mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Gradation requirement as per Table 500-17 of MORTH Specfications-2013 BC (Grading - 2)
19.0	**100**	100
13.2	**97.45**	90-100
9.5	**85.25**	70-88
4.75	**68.60**	53-71
2.36	**50.75**	42-58
1.18	**39.45**	34-48
0.600	**35.80**	26-38
0.300	**20.95**	18-28
0.150	**15.25**	12-20
0.075	**5.10**	4-10

*As Furnished by Client.
The Results relate only to the items tested.

KIRAN. R

For Newzen Consultants Bangalore

Proprietor

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NC/QC/PYZ/2017-18/A-BC10 Date: 28-08-2017

1.TEST REPORT ON BITUMINOUS MIXES :

(BITUMEN EXTRACTION TEST & GRADATION TEST)

Sub: To determine the percentage of bitumen and gradation for BC mix sample.

{Project*: Improvements and asphalting to cross roads at Agrahara layout instead of Kogilu layout in ward no 05.}

Ref.: Material testing/PMC/17-18,

Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: M/s Executive Engineer – 4,
KRIDL, Bangalore.

TEST RESULTS

A. Type of Construction : **Bituminous Concrete**

1. The bitumen content obtained after subjecting the sample for Bitumen Extraction test = **5.40 %**

2. **Gradation Test**

TABLE 1.1

Sieve Size, mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Gradation requirement as per Table 500-17 of MORTH Specfications-2013 BC (Grading - 2)
19.0	**100**	100
13.2	**98.10**	90-100
9.5	**79.45**	70-88
4.75	**64.05**	53-71
2.36	**47.50**	42-58
1.18	**38.75**	34-48
0.600	**29.80**	26-38
0.300	**21.40**	18-28
0.150	**17.95**	12-20
0.075	**6.15**	4-10

*As Furnished by Client.

The Results relate only to the items tested.

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